

WHAT IS CLAIMED IS:

1. A recording apparatus comprising multiple cartridges, which contain recording materials therein, and  
5 an apparatus communication module that establishes wireless communication with each of said multiple cartridges,

each of said multiple cartridges mounting a cartridge communication module, which establishes wireless communication with said apparatus communication module and  
10 possesses intrinsic information for identification of each of said multiple cartridges in wireless communication,

said recording apparatus comprising:

a transportation module that is capable of collectively transporting said multiple cartridges and  
15 sequentially makes said cartridge communication modules mounted on said multiple cartridges approach to and pass by an antenna, which is provided for the wireless communication; and

an access module that, when said cartridge  
20 communication module mounted on any one of said multiple cartridges enters a communicable range of said apparatus communication module via the antenna and establishes communication with said apparatus communication module, identifies the one of said multiple cartridges based on the  
25 intrinsic information possessed by the one of said multiple cartridges and transmits predetermined data to or from said identified cartridge.

2. A recording apparatus in accordance with claim 1,  
wherein said transportation module comprises a carriage  
with said multiple cartridges mounted thereon, and a  
5 conveyance sub-module that conveys said carriage for  
recording on a recording medium with the recording  
materials,

said conveyance sub-module sequentially making said  
cartridge communication modules mounted on said multiple  
10 cartridges approach to and pass by the antenna.

3. A recording apparatus in accordance with claim 2,  
wherein said conveyance sub-module sequentially makes said  
cartridge communication modules mounted on said multiple  
15 cartridges approach to and pass by the antenna out of a  
recording range onto the recording medium.

4. A recording apparatus in accordance with claim 2,  
wherein said conveyance sub-module sequentially makes said  
20 cartridge communication modules mounted on said multiple  
cartridges approach to and pass by the antenna in a recording  
range onto the recording medium.

5. A recording apparatus in accordance with claim 1,  
25 wherein said transportation module transports said multiple  
cartridges at a specific moving velocity, which is set  
corresponding to an interval between each adjoining pair

of said multiple cartridges to ensure a time period required for identification of each of said multiple cartridges and a time period required for transmission of the predetermined data.

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6. A recording apparatus in accordance with any one of claims 1 through 5, wherein said cartridge communication module included in each of said multiple cartridges utilizes electromagnetic induction for transmission of the predetermined data and receives at least part of electric power consumed by said cartridge.

7. A recording apparatus in accordance with claim 1, wherein each of said multiple cartridges has an ink chamber containing one of multiple color inks as the recording material.

8. A recording apparatus in accordance with claim 1, wherein the predetermined data transmitted to and from said access module comprise data regarding the recording materials contained in said multiple cartridges.

9. A communication method of establishing wireless communication between each of multiple cartridges containing recording materials and a recording apparatus with said multiple cartridges attached thereto, said communication method comprising:

providing each of said multiple cartridges which  
mounts a cartridge communication module and establishes  
wireless communication and possesses intrinsic information  
for identification of each of said multiple cartridges in  
5 wireless communication,

collectively transporting said multiple cartridges  
and sequentially making said cartridge communication  
modules mounted on said multiple cartridges approach to and  
pass by an antenna, which is provided for the wireless  
10 communication;

when said cartridge communication module mounted on  
any one of said multiple cartridges enters a communicable  
range via the antenna and establishes wireless  
communication, identifying the one of said multiple  
15 cartridges based on the intrinsic information possessed by  
the one of said multiple cartridges; and

transmitting predetermined data to or from said  
identified cartridge.